# Search Results -

Terms	Documents		
L2 same interfac\$3	27		

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L3			 Refine Search
	Recall Text 🗢	Clear	Interrupt

# Search History

DATE: Friday, June 24, 2005 Printable Copy Create Case

Set Name side by sid		Hit Count	Set Name result set
DB=PC	GPB, USPT, USOC; PLUR=YES; OP=OR		
<u>L3</u>	L2 same interfac\$3	27	<u>L3</u>
<u>L2</u>	primary same secondary same function same monitor\$3 same bus	141	<u>L2</u>
<u>L1</u>	"primary function" same "secondary function" same monitor\$3 same bus	1	<u>L1</u>

# Search Results -

ments
15025
=

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

L1

Recall Text
Clear
Interrupt

# Search History

DATE: Friday, June 24, 2005 Printable Copy Create Case

Set
Name Query
side by
side

Hit Set Name result set

DB=PGPB, USPT, USOC; PLUR=YES; OP=OR

<u>L1</u> 710/305,105,15;709/224,217,249;370/245,252,451;713/153,154;702/122,190;714/47,799.ccls. 15025 <u>L1</u>

Search Results -

Terms Documents
L1 and L2 6

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L3		<u> </u>	Refine Search
	Recall Text 🔷	Clear	Interrupt

# **Search History**

DATE: Friday, June 24, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=	=PGPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L3</u>	11 and L2	6	<u>L3</u>
<u>L2</u>	(primary adj5 function) same (secondary adj5 function) same monitor\$3	84	<u>L2</u>
<u>L1</u>	710/305,105,15;709/224,217,249;370/245,252,451;713/153,154;702/122,190;714/47,799.ccls.	15025	<u>L1</u>

# Search Results -

Terms	Documents
(primary adj1 function) same (secondary adj5 function) same monitor\$3	2

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EBO Abstracts Database

Database:

EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L1			Refine Search
	Recall Text 👄	Clear	Interrupt

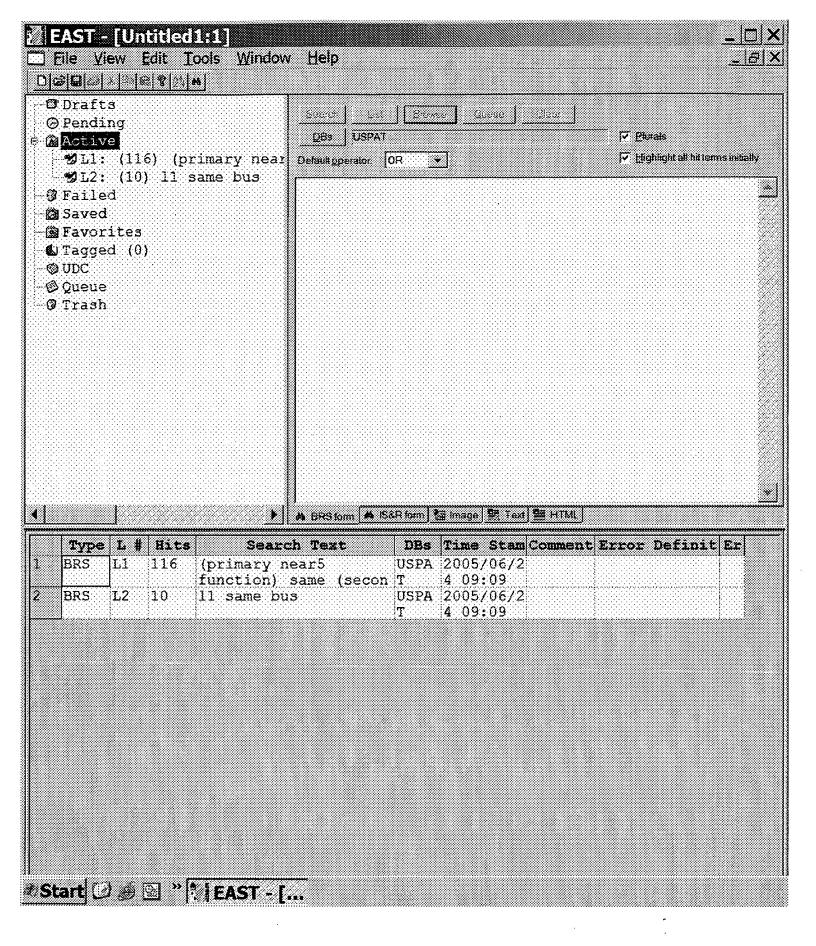
# Search History

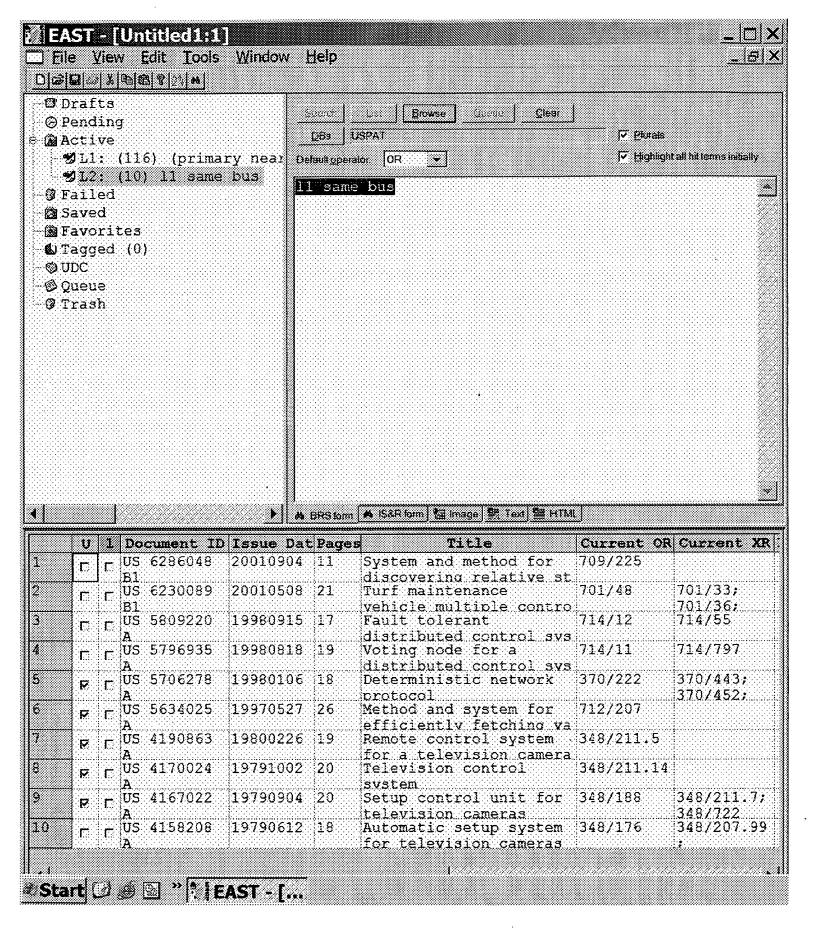
DATE: Friday, June 24, 2005 Printable Copy Create Case

Set Name Query side by side Hit Count Set Name result set

DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L1</u> (primary adj1 function) same (secondary adj5 function) same monitor\$3 2 <u>L1</u>







Home | Login | Logout | Access information | Arens | Sitemap | Halp

Welcome United States Patent and Trademark Office

BROWSE HEE XPLORE GUIDE SUPPORT Search Results SHARCH Results for "( (primary function) and (secondary function)<in>metadata )" Your search matched 2 of 1174497 documents. A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order. » View Session History » New Search Modify Search » Key ( (primary function) and (secondary function)<in>metadata ) >> IEEE Journal or KEEK JNE. Check to search only within this results set Magazine IEE Journal or IEE JNL Display Format: Citation Citation & Abstract Magazine IEEE Conference ieee Cnf Proceeding Select Article Information IEE Conference IEE CNF Proceeding HEEE STO IEEE Standard 1. Leak checker data acquisition system Payne, J.; Gannon, J.; Particle Accelerator Conference, 1993., Proceedings of the 1993 17-20 May 1993 Page(s):3870 - 3872 vol.5 AbstractPius | Full Text: PDF(344 KB) (SEE CNF)

2. Space Shuttle RTOS Bayesian network

Morris, A.T.; Beling, P.A.;

#Inspec

Help Contact Us Privacy & Security IEEE.org

© Copyright 2005 IEEE - All Flights Reserved



Home | Legin | Legout | Access Information | Alerts | Sternap | Help

Welcome United States Patent and Irademark Office

SEARCH

HERE XPLOKE GUIDE

SUPPORT

Ce-mail 🚵 printer friendly

Access this document

View Search Results | Next Article ▶

Full Text: PDE (344 KB)

Download this citation

Choose Citation

Download EndNote, ProCite, RefMan

" Learn More

Rights & Permissions



Posted online: 2002-08-06 18:59:02.0

» Learn More

# Leak checker data acquisition system

Dept. of Electr. Eng., SSC Lab., Dallas, TX, USA

This paper appears in: Particle Accelerator Conference, 1993., Proceedings of the 1993

DOI: 10.1109/PAC.1993.309796 INSPEC Accession Number:4795348 Location: Washington, DC Meeting Date: 05/17/1993 - 05/20/1993 On page(s): 3870 - 3872 vol.5 Publication Date: 17-20 May 1993

as the string of magnets approach critical test conditions this system are the documentation of test conditions, archiving data sets for future reference, and providing a real-time display of all channels vacuum leaks and provide acceptance testing of the vacuum system for a string of superconducting magnets. The secondary functions of graphical plotting of every channel within microseconds of when the helium was released into the vacuum. The readings are used to locate isolate a helium leak within 20 cm. Data logging enables technicians to witness the flight of the helium through the magnet string by a from mass spectrometers. This system monitors up to 14 mass spectrometers, operating from as far away as 1 kilometer, or clustered to A portable, high speed, computerized, data logging system is proposed. The primary function of this system is to collect 'helium readings'

index Terms

# Controlled Indexing

computing vacuum.leaks vacuum.system system data loggers leak checker leak detection mass spectrometers mass spectroscopy spectroscopy He He leak He readings acceptance testing computerized data logging system data acquisition data acquisition

# Non-controlled Indexing

computing vacuum leaks vacuum system system data loggers leak checker leak detection mass spectrometers mass spectroscopy spectroscopy He He leak He readings acceptance testing computerized data logging system data acquisition data acquisition

**Author Keywords** 

Not Available

References

No references available on IEEE Xplore

Citing Occurrents

No citing documents available on IEEE Xplore.

♦ View Search Results | Next Article 

•

minspec\*

Help Contact Us Privacy & Security IEEE.org

© Copyright 2006 IIIIIII - All Rights Reserved

# **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

**Search Results -** Record(s) 1 through 6 of 6 returned.

1. Document ID: US 20050076151 A1

L3: Entry 1 of 6

File: PGPB

Apr 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050076151

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050076151 A1

TITLE: Wireless bridge device within a process control system

PUBLICATION-DATE: April 7, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Tapperson, Gary Austin TX US Boyd, Thomas Andrew Austin TX US

US-CL-CURRENT: 709/249

- 4			<del>,</del>					·			,		,	
3	Full	Title	i Citation i	Frant	© escional	Classification	France	Poteronee	: Samuannar i	Attachments	I for insert	\$5000°	Draw Draca	Inserted
- 3	( 0.0	11111	Charcon :	FIVER	1150 600	Classification	L ace	: Metalette	; coeseptient rueses ;	Participal of Chica	: 5 10 11115 :	DOMO:	Chaos Desc	
								·	· · · · · · · · · · · · · · · · · · ·	*	:			

2. Document ID: US 20040139264 A1

L3: Entry 2 of 6 File: PGPB Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040139264

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040139264 A1

TITLE: Bus station with integrated bus monitor function

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Gros, Thomas Neustadt DE Faist, Fridolin Oberwolfach DE

US-CL-CURRENT: 710/305

Full Title Citation Front Review	Classification Date Reference	Sequences Attachments Claims Kooc	Draw Desc Image
	······································	· · · · · · · · · · · · · · · · · · ·	

3. Document ID: US 6327620 B1

L3: Entry 3 of 6 File: USPT Dec 4, 2001

Record List Display Page 2 of 3

US-PAT-NO: 6327620

DOCUMENT-IDENTIFIER: US 6327620 B1

TITLE: Methods and apparatus for collecting, storing, processing and using network traffic data

Full Title Citation Front Review Classification Date Reference Claims RMC Draw Desc Image

L3: Entry 4 of 6

US-PAT-NO: 6279037

DOCUMENT-IDENTIFIER: US 6279037 B1

TITLE: Methods and apparatus for collecting, storing, processing and using network traffic data

File: USPT

Full Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |

5. Document ID: US 5793963 A

L3: Entry 5 of 6 | File: USPT | Aug 11, 1998

US-PAT-NO: 5793963

DOCUMENT-IDENTIFIER: US 5793963 A

TITLE: Apparatus for providing non-redundant secondary access to field devices in a distributed

control system

Full Title Citation Front Review Classification Date Reference Claims 13MC Draw Desc Image

6. Document ID: US 5699348 A

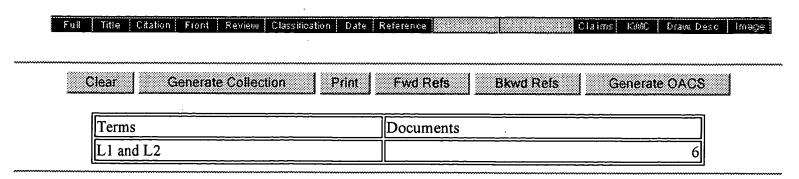
L3: Entry 6 of 6 File: USPT Dec 16, 1997

US-PAT-NO: 5699348

DOCUMENT-IDENTIFIER: US 5699348 A

TITLE: Method and apparatus for error performance monitoring of a leased telecommunication

circuit



Aug 21, 2001

Change Format Display Format: -

Previous Page

Next Page

Go to Doc#

# **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

**Search Results -** Record(s) 1 through 10 of 27 returned.

1. Document ID: US 20050057224 A1

L3: Entry 1 of 27

File: PGPB

Mar 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050057224

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050057224 A1

TITLE: Alternating-source peak-shift power application system, method and program product

PUBLICATION-DATE: March 17, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Naitoh, Arimasa Fujisawa-shi JP Odaohhara, Shigefumi Yamato-shi JP

US-CL-CURRENT: 320/128

Full	Title Citatio	n Front	Review	Classification D	Date Reference	Sequences	Attachments	Claims	KOMIC	Drawi Desc	Image

# 2. Document ID: US 20040239173 A1

L3: Entry 2 of 27

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040239173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040239173 A1

TITLE: Redundant architecture for brake-by-wire system

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Williams, Aaron Charles Hinesburg VT US Ash, Bryan Antony Bristol VT US Conklin, Peter Stanton South Burlington VТ US Zwick, David Pittsford NY US Townsend, David Montreal CA

US-CL-CURRENT: 303/3

Record List Display Page 2 of 4

3. Document ID: US 20040215569 A1

L3: Entry 3 of 27 File: PGPB Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040215569

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040215569 A1

TITLE: Method to ensure a unique machine serial number

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Agha, Salim Ahmed Rochester MN US Birkestrand, Daniel Charles Rochester MN US Rochester MN US

Igel, Stephen MarkRochesterMNUSLewis, David OttoRochesterMNUS

US-CL-CURRENT: 705/57

Full Title Citation Front	Review Classification Date Referen	os Sequences Attachments Claims	KAMC   Draw. Desc   Image
		······	

# 4. Document ID: US 20040139264 A1

L3: Entry 4 of 27 File: PGPB Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040139264

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040139264 A1

TITLE: Bus station with integrated bus monitor function

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Gros, Thomas Neustadt DE Faist, Fridolin Oberwolfach DE

US-CL-CURRENT: <u>710/305</u>

`	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Desi	Image
****	********	*****	*****			*******************	******	******	***********	************	********	*****	*********	*******

# 5. Document ID: US 20030216969 A1

L3: Entry 5 of 27 File: PGPB Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030216969

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030216969 A1

TITLE: Inventory management system

Record List Display

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bauer, Donald G. Laurel MD US Ellicott City MD US Campero, Richard J. Rasband, Paul B. MD US Frederick Weel, Martin D. Coto De Caza CA US

US-CL-CURRENT: 705/22; 235/385, 340/5.92

Full Title Citation Front Review	and processing the body in the contract of St	Davis anno anno 1. Airte alamanda 1. 1915 i a	s KOMC Drawi Desc Image
FULL TIME : Caston : From : Revi	n   Classication   Date   Reference   C	spilinghices i Bhiaichmenia i c 1910	S: NONC : Draw Desc : mage:
	<u> </u>		

6. Document ID: US 20030204657 A1

L3: Entry 6 of 27 File: PGPB Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204657

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204657 A1

TITLE: Method and apparatus for BIOS control of electrical device address/identification

assignments

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Lehwalder, Philip R. Portland OR US Barmore, Brad A. Portland OR US

US-CL-CURRENT: 710/301

			************	**********				
Full Title Citation	Front Review	Classification	Date Refers	ence Sequences	Attachments	Claims KMC	Drawi Desc Im	mage
·	· ·	, ,			·	•	, , , , , , , , , , , , , , , , , , ,	

# 7. Document ID: US 20020065582 A1

L3: Entry 7 of 27 File: PGPB May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020065582

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020065582 A1

TITLE: Electro-statically-shielded processing module

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Morrison, Brian D. Hopkinton MA US
Connolly, Paul A. Milford MA US

US-CL-CURRENT: 700/286; 700/22, 73/1.35

Full Title Citation, Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

8. Document ID: US 6826715 B1

File: USPT

US-PAT-NO: 6826715

DOCUMENT-IDENTIFIER: US 6826715 B1

L3: Entry 8 of 27

TITLE: Automatic capture and comparison of computer configuration data

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Desc Image

9. Document ID: US 6807149 B1
L3: Entry 9 of 27

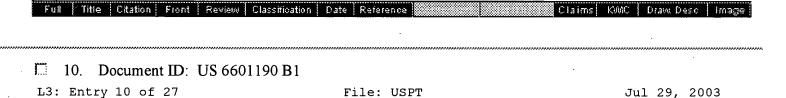
File: USPT

Oct 19, 2004

US-PAT-NO: 6807149

DOCUMENT-IDENTIFIER: US 6807149 B1

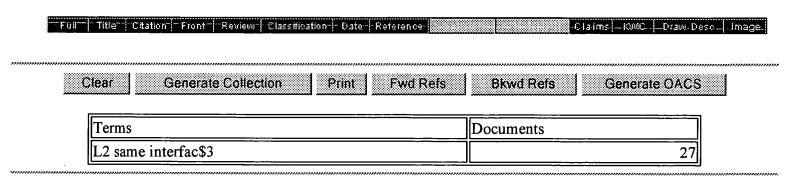
TITLE: Method and system for LEC resiliency with fast failover



US-PAT-NO: 6601190

DOCUMENT-IDENTIFIER: US 6601190 B1

TITLE: Automatic capture and reporting of computer configuration data



Display Format: - Change Format

Previous Page Next Page Go to Doc#

Nov 30, 2004

# Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

**Search Results -** Record(s) 11 through 20 of 27 returned.

11. Document ID: US 6600972 B2

L3: Entry 11 of 27

File: USPT

Jul 29, 2003

US-PAT-NO: 6600972

DOCUMENT-IDENTIFIER: US 6600972 B2

TITLE: Electro-statically-shielded processing module

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |

12. Document ID: US 6426957 B1

L3: Entry 12 of 27

File: USPT

Jul 30, 2002

US-PAT-NO: 6426957

DOCUMENT-IDENTIFIER: US 6426957 B1

TITLE: Asynchronous transfer mode based service consolidation switch

Full | Title: | Citation | Front | Review | Classification | Date | Reference | Claims | Claims | KMC | Draw Desc | Image |

13. Document ID: US 6356809 B1

L3: Entry 13 of 27

File: USPT

Mar 12, 2002

US-PAT-NO: 6356809

DOCUMENT-IDENTIFIER: US 6356809 B1

\*\* See image for <u>Certificate of Correction</u> \*\*.

TITLE: Electro-statically shielded processing module

14. Document ID: US 6314523 B1

L3: Entry 14 of 27

File: USPT

Nov 6, 2001

US-PAT-NO: 6314523

DOCUMENT-IDENTIFIER: US 6314523 B1

TITLE: Apparatus for distributing power to a system of independently powered devices

Record List Display Page 2 of 3

15. Document ID: US 6295090 B1

L3: Entry 15 of 27 File: USPT Sep 25, 2001

US-PAT-NO: 6295090

DOCUMENT-IDENTIFIER: US 6295090 B1

TITLE: Apparatus for providing video resolution compensation when converting one video source

to another video source

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Desc Image

16. Document ID: US 6201580 B1

L3: Entry 16 of 27 File: USPT Mar 13, 2001

US-PAT-NO: 6201580

DOCUMENT-IDENTIFIER: US 6201580 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Apparatus for supporting multiple video resources

Full Title Citation Front Review Classification Date Reference Claims KWC Draw Desc Image

17. Document ID: US 6157464 A

L3: Entry 17 of 27

File: USPT

Dec 5, 2000

US-PAT-NO: 6157464

DOCUMENT-IDENTIFIER: US 6157464 A

TITLE: Facsimile store and forward system with local interface

Full Title Citation Front Review Classification Date Reference Cla

US-PAT-NO: 6044207

DOCUMENT-IDENTIFIER: US 6044207 A

TITLE: Enhanced dual port I/O bus bridge

19. Document ID: US 5930237 A

L3: Entry 19 of 27 File: USPT Jul 27, 1999

US-PAT-NO: 5930237

DOCUMENT-IDENTIFIER: US 5930237 A

TITLE: Video conference system with ATM cell reuse

Full Title Citation Front	Review Classification Date Reference	
20. Document ID:	US 5850395 A	
L3: Entry 20 of 27	File: USPT	Dec 15, 1998

US-PAT-NO: 5850395

DOCUMENT-IDENTIFIER: US 5850395 A

\*\* See image for Certificate of Correction \*\*

TITLE: Asynchronous transfer mode based service consolidation switch

Full Title Citation Front Review	Classification   Date	Reference		Haims KMMC	Drawa Desc In
Clear Generate Collect	ion Print	Fwd Refs	Bkwd Refs	Generat	
Terms			Documents		
L2 same interfac\$3		27		27	

ormat

Previous Page Next Page Go to Doc#

# **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

**Search Results -** Record(s) 21 through 27 of 27 returned.

21. Document ID: US 5559611 A

L3: Entry 21 of 27

File: USPT

Sep 24, 1996

US-PAT-NO: 5559611

DOCUMENT-IDENTIFIER: US 5559611 A

TITLE: Facsimile store and forward system with local interface

Full Title Citation Front Review Classification Date Reference

22. Document ID: US 5555100 A

L3: Entry 22 of 27

File: USPT

Sep 10, 1996

US-PAT-NO: 5555100

DOCUMENT-IDENTIFIER: US 5555100 A

TITLE: Facsimile store and forward system with local interface translating DTMF signals into

store and forward system commands

23. Document ID: US 5517631 A

L3: Entry 23 of 27

File: USPT

May 14, 1996

US-PAT-NO: 5517631

DOCUMENT-IDENTIFIER: US 5517631 A

TITLE: Miniature disk drive having embedded sector servo with split data fields and automatic

on-the-fly data block sequencing

24. Document ID: US 4805171 A

L3: Entry 24 of 27

File: USPT

Feb 14, 1989

US-PAT-NO: 4805171

DOCUMENT-IDENTIFIER: US 4805171 A

TITLE: Unitary PCM rate converter and multiframe buffer

25. Document ID: US 4695944 A

L3: Entry 25 of 27

File: USPT

Sep 22, 1987

US-PAT-NO: 4695944

DOCUMENT-IDENTIFIER: US 4695944 A

TITLE: Computer system comprising a data, address and control signal bus which comprises a left

bus and a right bus

Full Title Citation Front Review Classification Date Reference 26. Document ID: US 4489438 A

L3: Entry 26 of 27

File: USPT

Dec 18, 1984

US-PAT-NO: 4489438

DOCUMENT-IDENTIFIER: US 4489438 A

TITLE: Audio response system

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Desc Image

27. Document ID: US 3432841 A

L3: Entry 27 of 27

File: USOC

Mar 11, 1969

US-PAT-NO: 3432841

DOCUMENT-IDENTIFIER: US 3432841 A

TITLE: STATUS INDICATING AND ALARM ANNUNCIATING SYSTEMS FOR ELECTRICALLY POWERED DEVICES

DATE-ISSUED: March 11, 1969

INVENTOR-NAME: CLAY CHARLES L; HARVEY HERBERT; SIMS MARTIN H

US-CL-CURRENT: 340/635, 340/654, 361/23

Full Title Citation Front Review Classification Date Reference Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS Terms Documents 27 L2 same interfac\$3

> Change Format Display Format: |-

Previous Page

Next Page

Go to Doc#

First Hit Fwd Refs

Previous Doc Next Doc Go to Doc#

Generate Collection

L3: Entry 25 of 27

File: USPT

Print

Sep 22, 1987

US-PAT-NO: 4695944

DOCUMENT-IDENTIFIER: US 4695944 A

TITLE: Computer system comprising a data, address and control signal bus which comprises a left

bus and a right bus

DATE-ISSUED: September 22, 1987

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Zandveld; Frederik Beekbergen NL Visser; Jeroen M. Beekbergen NL

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

U.S. Philips Corporation New York NY 02

APPL-NO: 06/ 910796 [PALM]
DATE FILED: September 22, 1986

PARENT-CASE:

This is a continuation of application Ser. No. 495,379, filed May 17, 1983, now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

NL 8202060 May 19, 1982

INT-CL: [04] G06F 13/14, G06F 13/38

US-CL-ISSUED: 364/200 US-CL-CURRENT: 710/105

FIELD-OF-SEARCH: 364/2MSFile, 364/9MSFile

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search ALL

Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
	4047162	September 1977	Dorey et al.	364/900
	4106104	August 1978	Nitta et al.	364/900
<b></b>	4231086	October 1980	Tarbox et al.	364/200
	4257099	March 1981	Appelt	364/200

Search Selected

Recor	d Display Form			Page 2 of 2
	4320451	March 1982	Bachman et al.	364/200

1	4320451	March 1982	Bachman et al.	364/200
	4380798	April 1983	Shannon et al.	364/200
$\Box$	4390943	June 1983	Twibell et al.	364/200
	4442504	April 1984	Dummermuth et al.	364/900

#### OTHER PUBLICATIONS

Madnick, "Operation System", pp. 255-261, 1974, McGraw-Hill.

ART-UNIT: 232

PRIMARY-EXAMINER: Eng; David Y.

ATTY-AGENT-FIRM: Haken; Jack E. Cannon, Jr.; James J.

#### ABSTRACT:

A computer system comprises a bus for data, address and control signals which is divided into a left bus and a right bus by a first gating device. The gating device has an open state which is character-wise activated by a right bus request transported on the left bus. Furthermore, the gating device conducts start signals from a processor station connected to the left bus and interrupt signals from a peripheral apparatus connected to the right bus. In the closed state of the gating device, bulk data transport is possible on the right bus without interfering with the processor station. The processing speed is thus increased.

7 Claims, 7 Drawing figures

Previous Doc Next Doc Go to Doc#

Record Display Form Page 1 of 1

First Hit Previous Doc Next Doc Go to Doc#

End of Result Set

Generate Collection Print

L1: Entry 1 of 1 File: PGPB Jul 15, 2004

DOCUMENT-IDENTIFIER: US 20040139264 A1

TITLE: Bus station with integrated bus monitor function

#### Summary of Invention Paragraph:

[0020] This problem is solved according to a first aspect of the invention by a newly designed bus station such as a sensor, an actuator, a control unit or a gateway, etc. combining the primary function of each device with a secondary function, i.e. the bus monitor function, by integrating a bus monitoring means in the bus station. In the context of the present invention, the primary function refers to the main purpose of each bus station, i.e. the device to be coupled to the bus for which it is used. For example, the primary function of a sensor is to detect physical processes and to convert them into electrical or digital signals that may be further processed and evaluated. According to the invention, each bus station, apart from this primary function, also uses the bus interface, already present for the purposes of process data communication, to carry out the monitoring of the bus system as a secondary task.

#### CLAIMS:

- 1. A <u>bus</u> station having a <u>primary function</u> such as a sensor function and that may be coupled to a <u>bus</u> system, comprising: at least one <u>bus</u> interface for communication of said <u>bus</u> station with said <u>bus</u> system, and a <u>bus monitor</u> means integrated with said <u>bus</u> station and coupled to said <u>bus</u> interface, said <u>bus monitor</u> means giving said <u>bus</u> station a <u>secondary function</u>, wherein <u>said bus monitor</u> means is adapted for at least one of the following activities: <u>monitoring</u> of the communication of said <u>bus</u> station with said <u>bus</u> system via said <u>bus</u> interface, and <u>monitoring</u> of the internal communication within <u>said bus</u> station.
- 23. A network having at least one <u>bus</u> system and at least one <u>bus</u> station having a <u>primary function</u>, such as a sensor function, and which may be coupled to a <u>bus</u> system, wherein said <u>bus</u> station comprises at least one <u>bus</u> interface for communication of said <u>bus</u> station with said <u>bus</u> system, and a <u>bus monitor</u> means; wherein said <u>bus monitor</u> means is integrated with said <u>bus</u> station and coupled to said <u>bus</u> interface, and giving said <u>bus</u> station a <u>secondary function</u>, <u>wherein said bus monitor</u> means is adapted for <u>monitoring</u> of the communication of said <u>bus</u> station with said <u>bus</u> system via said <u>bus</u> interface, wherein said network is <u>monitored by means</u> of said bus monitor means integrated with said <u>bus</u> station.
- 24. A method for carrying out <u>monitoring</u> processes of a <u>bus</u> system, comprising: coupling a <u>bus</u> station to said <u>bus</u> system, wherein said <u>bus</u> station has a <u>primary function</u> such as a sensor function, and comprising at least one <u>bus</u> interface for communication of said <u>bus</u> station with said <u>bus</u> system, and a <u>bus monitor</u> means; wherein said <u>bus monitor</u> means is integrated with said <u>bus</u> station and coupled to said <u>bus</u> interface, wherein said <u>bus monitor</u> means gives a <u>secondary function to said bus</u> station in the form of said <u>monitoring</u>, <u>monitoring</u> the communication of said <u>bus</u> station with said <u>bus</u> system via said <u>bus</u> interface by means of said <u>bus monitor</u> means.
- 27. A method for carrying out <u>monitoring</u> processes of a <u>bus</u> system, comprising: coupling a <u>bus</u> station to said <u>bus</u> system, wherein said <u>bus</u> station has a <u>primary function</u> such as a sensor function, and comprising at least one <u>bus</u> interface for communication of said <u>bus</u> station with said <u>bus</u> system, and a <u>bus monitor</u> means; wherein said <u>bus monitor</u> means is integrated with said <u>bus</u> station and coupled to said <u>bus</u> interface, wherein said <u>bus monitor</u> means gives a <u>secondary function to said bus</u> station in the form of said <u>monitoring</u>, <u>monitoring</u> the internal communication of said bus station by means of said <u>bus</u> monitor means.

Previous Doc Next Doc Go to Doc#

Page 1 of 1

Record Display Form

First Hit

Previous Doc

Next Doc

Go to Doc#

End of Result Set

Generate Collection

Print

L1: Entry 1 of 1

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040139264

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040139264 A1

TITLE: Bus station with integrated bus monitor function

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Gros, Thomas

Neustadt

DE

Faist, Fridolin

Oberwolfach

DE

Go to Doc#

APPL-NO: 10/ 623199 [PALM] DATE FILED: July 18, 2003

RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/397558, filed July 18, 2002,

INT-CL:  $[07] \underline{G06} \underline{F} \underline{13}/\underline{14}$ 

US-CL-PUBLISHED: 710/305 US-CL-CURRENT: 710/305

REPRESENTATIVE-FIGURES: 1

#### ABSTRACT:

The present invention relates to a bus station (14; 15; 23) such as a sensor (14), an actuator (15) or a gateway (23) fulfilling, apart from their primary device immanent function, a secondary function, namely a bus monitor function. In order to be able to fulfil said secondary function, the bus stations (14; 15; 23) are each equipped with a bus monitor means (30) which makes it possible to access, to detect and to further process the telegram traffic carried on the bus system (5; 40). The invention also relates to a network equipped with such bus stations (14; 15; 23) and a method for carrying out such monitoring with the aid of said bus stations (14; 15; 23).

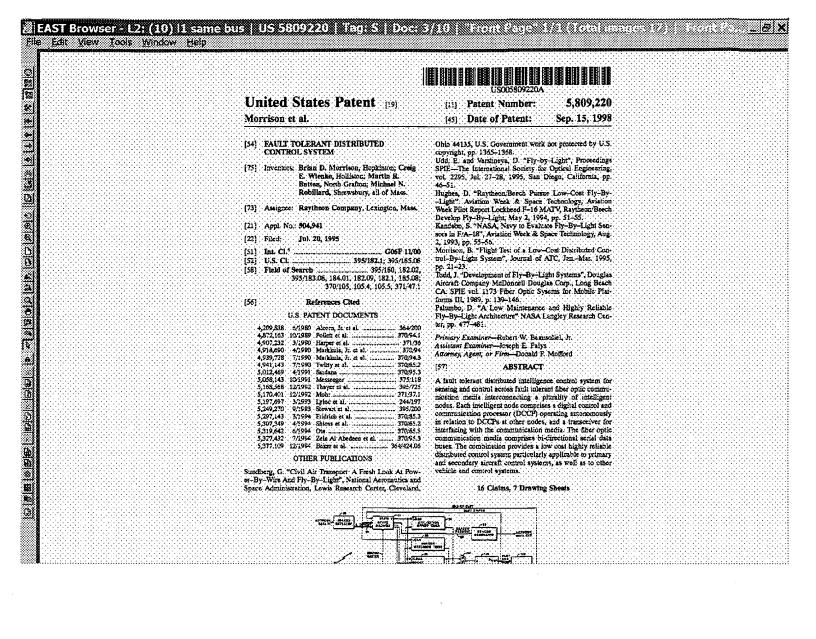
PRIORITY CLAIM

[0001] This application claims the benefit of U.S. Provisional Patent Application Serial No. 60/397,558 filed on Jul. 18, 2002 which is expressly incorporated herein, in its entirety, by reference.

Previous Doc Next Doc

---- YWIC

Detailed Description Text - DETM (2): Referring to FIG. 1, a block diagram of a distributed intelligence fault tolerant control-by-light.TM. system 10 is shown comprising a deterministic network protocol for communication with a plurality of intelligent nodes 12, 14, 16, 18, 20. Such nodes 12-20 are connected to one or more bi-directional serial buses 21, 22, 23, each of said buses being a single fiber optic ring in the preferred embodiment. The number of nodes shown in FIG. 1 is only representative of a system and one skilled in the art will recognize that many representative of a system and one skilled in the art will recognize that many node configurations are feasible depending on the particular system application. The system 10 is particularly useful for aircraft control by providing a low cost fault-tolerant control-by-light.TM. distributed intelligence system for sensing and control across fault tolerant fiber optic networks. The system 10 uses the distributed local intelligent nodes 12-20 to sense and/or control physical parameters and actuators with messages being passed across redundant serial tubes 21,22,23 whenever sense or control information changes. In order to achieve fault tolerant operation, two, three or four or more redundant data tubes are employed depending upon the or four or more redundant data buses are employed depending upon the criticality, and redundancy is also employed in certain intelligent nodes performing critical functions such as sensor/actuator functions in an aircraft control system. The coupling of the nodes 12-20 to the serial data buses is accomplished by transceivers 26.sub.1-N and each transceiver 26.sub.1-N is connected to a digital control and communication processor (DCCP) 28.sub.1-N. Each combination of a transceiver and a DCCP may be referred to as a processing element. This system 10 in an aircraft application replaces mechanical, hydraulic and electrical controls now used by aircraft pilots to control, monitor, and display primary and secondary flight control functions and it provides substantial weight, cost, safety and performance advantages over current techniques. This system 10 is applicable to control of other systems current techniques. This system is is applicable to control of other systems besides aircraft such as ground transportation, surface and submarine ships, spacecraft, utilities and industrial process controls. Although the data has media in the present preferred embodiment is implemented with fiber optics, the deterministic network protocol is applicable to other medias such as twisted pair wiring and power lines.



US-PAT-NO:

4158208

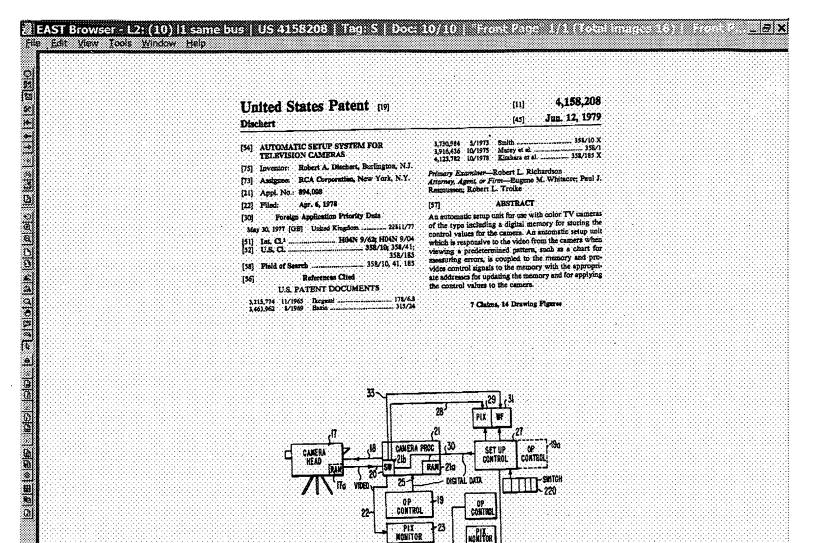
DOCUMENT-IDENTIFIER: US: 4158205 A

TITLE

Automatic setup system for television cameras

---- KWIC ----

Detailed Description Text - DETX (29): The encoder 166 comprises four such up/down counters or accumulators 166a, 166b, 166c and 166d which four accumulator outputs are sequentially provided each field to the gate 159 in response to gating signals sent via four leads 158 from commutator 157. Each of the leads 158 are coupled to a gating input of a different one of the accumulators. The commutator 157 is responsive to the vertical sync signal for sequentially gating during each field the four addresses selected by the primary and manifering buttons and for gating the data in the appropriate accumulator and for gating the repeat address following the data. If no data is present (no change in the knobs) a signal from that up/down counter or accumulator is sent via one of the four leads 162 to the commutator 157 to stop the repeat address. The data from the encoder 166 is in the form of an 8-bit code which is provided sequentially from the impulse up/down counters 166a through 166d to the gate 159. The commutator 157 provides a stop counter signal to the up/down counters or accumulators after the first address. The commutator 157 sequences the impulse up/down counters or accumulators 166a through 166d cutput during each field and provides a clear to these counters at the end of each field. The display ROM 160 is responsive to the 5-bit word from the primary function buttons and provides four addresses to the alphanumeric character generator 161. The alphanumeric character generator 161 is coupled to the appropriate display 163 to indicate the primary functions controlled by the knobs. The secondary information (i.e. from the red, green, blue, horizontal and vertical buttons) is indicated by the lighting of the buttons. The alphanumeric display 163 can be flashed when there is an out of range condition in the correction. For example, when the data out of the adder/subtractor 113 in FIG. 8 is near zero or 256, the reverse data in the serial bit stream is detected at detector 165 via gate 167 and is coupled to display generator 161. When the red, green or blue switches 129, 130 and 131 or accumulators 166a through 166d output during each field and provides a clear display generator 161. When the red, green or blue switches 129, 130 and 131 are depressed, this is encoded in the 1 bit per line encoder 170 which provides a logic "1" or "0" out of gate 167 during the setup control unit switch function interval. This switch output is also directly coupled to the momitors. Similarly, the waveform momitor switch buttons are coupled to encoder 170 which provides the 1 bit per line code during the setup control unit switch function interval to the camera processor. Similarly, the condition switch functions indicated by some of the top buttons on the panel are placed on the output data bus by being applied to encoder 170 and applied to gate 167. The mode switch buttons are coupled to an encoder 176 which sends a code to a function ROM 177 which identifies the mode switch being depressed. The function ROM 177 when a code is applied provides an 8-bit address, 8-bit data of all logic "1" or all "3" followed by a repeat address to gate 167



TO PIX

Previous Doc Next Doc Go to Doc#

Generate Collection Print

L3: Entry 4 of 6

File: USPT

Aug 21, 2001

DOCUMENT-IDENTIFIER: US 6279037 B1

TITLE: Methods and apparatus for collecting, storing, processing and using network traffic data

### Brief Summary Text (14):

In order to facilitate the <u>monitoring</u> of network activity, remote <u>monitoring</u> (RMON) devices, often called <u>monitors</u> or probes, are sometimes used. These devices often serve as agents of a central network management station. Often the remote probes are stand-alone devices which include internal resources, e.g., data storage and processing resources, used to collect, process and forward, e.g., to the network management system, information on packets being passed over the network segment being <u>monitored</u>. In other cases, probes are built into devices such as a routers and bridges. In such cases, the available data processing and storage resources are often shared between a device's <u>primary functions</u> and its secondary traffic <u>monitoring</u> and reporting functions. In order to manage an intranet or other network comprising multiple segments many probes may be used, e.g., one per each network segment to be <u>monitored</u>.

<u>Current US Original Classification</u> (1): 709/224

Previous Doc Next Doc Go to Doc#

First Hit Fwd Refs

Previous Doc Next Doc Go to Doc#

> Generate Collection Print

L3: Entry 5 of 6

File: USPT

Aug 11, 1998

DOCUMENT-IDENTIFIER: US 5793963 A

TITLE: Apparatus for providing non-redundant secondary access to field devices in a distributed

control system

# Detailed Description Text (11):

More recently, field devices have been provided with microprocessors and additional functionality. Such "smart" field devices are capable of monitoring a plurality of process variables, performing a variety of control functions, performing comprehensive diagnostics, and providing a wide array of various types of status information. The Fieldbus specification specifies a variety of primary functions that may be supported by various Fieldbus field devices. In addition, many manufacturers have provided secondary functions beyond those specified in the Fieldbus specification. While Fieldbus field devices manufactured by different manufacturers are compatible to the extent that only Fieldbus specified functions are accessed, they are not compatible with respect to the secondary functions. For example, a Fieldbus controller manufactured by company A will generally not be able to access the secondary functions provided by a Fieldbus valve positioner manufactured by company B. Therefore, an industrial plant using a variety of Fieldbus components provided by different manufacturers will not be able to derive the benefit of all the functions provided by the various components.

Current US Cross Reference Classification (1): 709/217

Current US Cross Reference Classification (2): 709/224

Previous Doc Next Doc Go to Doc# Previous Doc Next Doc Go to Doc#

> Generate Collection

Print

L3: Entry 5 of 6

File: USPT

Aug 11, 1998

US-PAT-NO: 5793963

DOCUMENT-IDENTIFIER: US 5793963 A

TITLE: Apparatus for providing non-redundant secondary access to field devices in a distributed

control system

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Tapperson; Gary Austin TXBoyd; Thomas Andrew Austin тx

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

02 Fisher Rosemount Systems, Inc. Austin TX

APPL-NO: 08/ 893126 [PALM] DATE FILED: July 15, 1997

PARENT-CASE:

This is a continuation of application Ser. No. 08/328,324, filed Oct. 24, 1994 now abandoned.

INT-CL:  $[06] \underline{G06} \underline{F} \underline{11/30}$ 

US-CL-ISSUED: 395/200.31; 395/200.54, 395/200.47

US-CL-CURRENT: 709/201; 709/217, 709/224

FIELD-OF-SEARCH: 395/200.31, 395/200.54, 395/200.47

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search ALL

Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
	4149237	April 1979	Freitas	364/138
$\Gamma$	4152760	May 1979	Freitai et al.	364/107
	4268822	May 1981	Olsen	340/533
$\Gamma$	4303973	December 1981	Williamson, Jr. et al.	364/103
	4726017	February 1988	Krum et al.	370/85
	4729091	March 1988	Freeman et al.	
	<u>4910658</u>	March 1990	Dudash et al.	364/138
	4916441	April 1990	Gombrich	340/712

Search Selected

	•			
$\Box$	5088021	February 1992	McLauglin et al.	364/187
$\Box$	5099444	March 1992	Wilson et al.	364/709.09
	5131019	July 1992	Sheffer et al.	379/39
	5142550	August 1992	Tymes	375/1
	<u>5150363</u> .	September 1992	Mitchell	370/112
	<u>5239662</u>	August 1993	Danielson et al.	395/800
$\Box$	5374231	December 1994	Obrist	483/15
	5400246	March 1995	Wilson et al.	364/146
	5451923	September 1995	Seberger et al.	340/310.06
$\Box$	<u>5493569</u>	February 1996	Buchholz et al.	370/85.7
	5495482	February 1996	White et al.	370/85.11
$\Gamma$	5495484	February 1996	Self et al.	370/110.1

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 491 657 A1	June 1992	EP	
216109	August 1989	NZ	
227231	January 1991	NZ	
239534	November 1993	NZ	

#### OTHER PUBLICATIONS

D.A. Roberts, "`Olchfa` A Distributed Time-Critical Fieldsou", IEE, UK, London, Digest No: 1993/189, Oct./93 pp. 6/1-6/3.

ART-UNIT: 232

PRIMARY-EXAMINER: Geckil; Mehmet B.

ATTY-AGENT-FIRM: Kinney & Lange, P.A.

## ABSTRACT:

An apparatus for accessing field devices in a distributed control system provides non-redundant secondary access to a plurality of field devices that are controlled by a control room. The field devices are coupled to a Fieldbus control network. In a first embodiment, each field device is provided with a wireless Fieldbus port that is accessible by a wireless handheld unit or wireless terminal. In a second embodiment, each Fieldbus control network is provided with a field module having a wireless Fieldbus port that allows all devices connected to the Fieldbus control network to be accessed by a wireless handheld unit or a wireless terminal. In a third embodiment, an H2-to-H1 Fieldbus bridge (which may service a plurality of H1 control networks) is provided with a wireless Fieldbus port that allows all Fieldbus devices connected to H1 control networks serviced by the H2-to-H1 bridge to be access by a wireless handheld unit of a wireless terminal. In a fourth embodiment, a bridge/converter provides an interface between older analog control room components and newer Fieldbus field devices. In one configuration, the bridge/converter includes a hard-wired Fieldbus port connected to a terminal, which may be in the control room. In another configuration, the bridge/converter includes a wireless Fieldbus port that allows a wireless handheld unit or a wireless terminal to access the Fieldbus devices serviced by the bridge/converter. The present invention allows a maintenance person to access Fieldbus field devices while servicing a device in the field, and allows

secondary functions of field devices (which vary by manufacturer) to be accessed from a single remote unit.

27 Claims, 3 Drawing figures

Previous Doc Next Doc Go to Doc#

Record Display Form

First Hit Fwd Refs End of Result Set

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L3: Entry 6 of 6

File: USPT

Dec 16, 1997

DOCUMENT-IDENTIFIER: US 5699348 A

TITLE: Method and apparatus for error performance monitoring of a leased telecommunication circuit

### Brief Summary Text (8):

The present invention relates to a method and apparatus for use in monitoring and analyzing statistical parameters corresponding to errors occurring in the transmission of data signals in a telecommunication system. Communication between two customer sites preferably occurs through the use of a leased line or circuit, which defines fixed paths between the customer terminals and which comprises a plurality of transmission media and a plurality of network elements, including a near end and a far end network element. Each network element preferably comprises a primary and secondary port, each of which functions in one of a plurality of modes, for example, a first mode, a second mode, or a third mode. According to one embodiment, each port is in either a terminated mode, a framed clear mode, or an unframed clear mode. Errors in the transmission of data signals are detected and collected in at least some of the ports each of which preferably processes the data it collects to produce statistical parameters such as errored-seconds or severely-errored-seconds. The statistical parameters are then sent to a central management system which executes a performance monitoring ("PM") count routine to determine the number of errored-seconds, or severely-errored-seconds, associated with each direction of transmission in the customer circuit.

Current US Cross Reference Classification (1): 370/252

Previous Doc

Next Doc

Go to Doc#

# Previous Doc

Next Doc Go to Doc#

Generate Collection

Print

L3: Entry 6 of 6

File: USPT

Dec 16, 1997

US-PAT-NO: 5699348

DOCUMENT-IDENTIFIER: US 5699348 A

TITLE: Method and apparatus for error performance monitoring of a leased telecommunication

circuit

DATE-ISSUED: December 16, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Baidon; Sami A. New Milford NJ Huang; Shirley L. Holmdel NJ

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Lucent Technologies Inc. Murray Hill 02 NJ

APPL-NO: 08/ 551136 [PALM] DATE FILED: October 31, 1995

INT-CL: [06] <u>H04</u> J <u>3/14</u>

US-CL-ISSUED: 370/242; 370/252, 395/185.01 US-CL-CURRENT: <u>370/242</u>; <u>370/252</u>, <u>714/48</u>

FIELD-OF-SEARCH: 370/242, 370/243, 370/244, 370/252, 379/10, 379/24, 379/26, 395/183.01,

395/185.01

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search ALL

Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4730313	March 1988	Stephenson et al.	
5099511	March 1992	Matsumoto	379/198
5148426	September 1992	Shenoi et al.	370/32.1
5166890	November 1992	Smischny	364/551.01
5233648	August 1993	Nakamura	379/233
5311586	May 1994	Bogard et al.	379/221
5327489	July 1994	Anderson et al.	379/207
5329520	July 1994	Richardson	370/16

Search Selected

	5329589	July 1994	Fraser et al.	379/91
	5343461	August 1994	Barton et al.	370/13
$\mathbf{m}$	5400266	March 1995	Sato et al.	364/550
1	5450441	September 1995	Harris et al.	375/224
$\mathbf{C}$	5513173	April 1996	Machemer et al.	370/252
	5528748	June 1996	Wallace	395/183.01

#### OTHER PUBLICATIONS

Gerald D. Austin and Hilary B. Tomasson, "Unlocking the Value of Performance Monitoring Data," Telephony, Nov. 14, 1994, pp. 49-52.

ART-UNIT: 263

PRIMARY-EXAMINER: Olms; Douglas W.

ASSISTANT-EXAMINER: Jung; Min

#### ABSTRACT:

A method and apparatus for use in monitoring and analyzing statistical parameters corresponding to errors occurring in the transmission of data signals in a telecommunications network is disclosed. Communication between two customer sites occurs through the use of a leased line or circuit, which defines fixed paths between the customer terminals and which comprises a plurality of network elements. Statistical parameters, corresponding to errors detected and processed at ports in the network elements, are sent to a central management system which executes a performance monitoring count routine to determine the total number of errored-seconds, or severely-errored-seconds, or other statistical parameters associated with each direction of transmission in the customer circuit.

12 Claims, 5 Drawing figures

Previous Doc Next Doc Go to Doc#

# **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

**Search Results -** Record(s) 1 through 2 of 2 returned.

1. Document ID: JP 59008005 A

L1: Entry 1 of 2

File: JPAB

Jan 17, 1984

PUB-NO: JP359008005A

DOCUMENT-IDENTIFIER: JP 59008005 A

TITLE: MULTIPLEXING DEVICE



2. Document ID: EP 1523826 A1, WO 2004010645 A1, US 20040139264 A1, AU 2003250959 A1

L1: Entry 2 of 2

File: DWPI

Apr 20, 2005

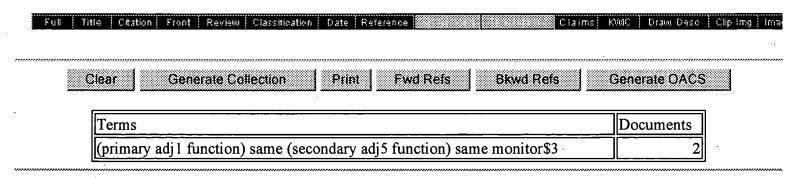
DERWENT-ACC-NO: 2004-143624

DERWENT-WEEK: 200527

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Communications bus station provides secondary bus monitoring function in addition to its

primary function



Display Format: - Change Format

Previous Page Next Page Go to Doc#

Record Display Form

First Hit

Previous Doc

Next Doc

Go to Doc#

End of Result Set

Generate Collection Print

L1: Entry 2 of 2

File: DWPI

Apr 20, 2005

DERWENT-ACC-NO: 2004-143624

DERWENT-WEEK: 200527

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Communications bus station provides secondary bus monitoring function in addition to its

Coard Calastad Caard Mil Circa

primary function

INVENTOR: FAIST, F; GROS, T

PATENT-ASSIGNEE: VEGA GRIESHABER KG (VEGAN), FAIST F (FAISI), GROS T (GROSI)

PRIORITY-DATA: 2002US-397558P (July 18, 2002), 2003US-0623199 (July 18, 2003)

	<u> </u>	Search Selected Search ALL Clear			
PATE	ENT-FAMILY:				
	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
	EP 1523826 A1	April 20, 2005	G	000	H04L012/24
	WO 2004010645 A1	January 29, 2004	G	043	H04L012/24
$\Box$	US 20040139264 A1	July 15, 2004		000	G06F013/14
	AU 2003250959 A1	February 9, 2004		000	H04L012/24

DESIGNATED-STATES: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

#### APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1523826A1	July 15, 2003	2003EP-0764993	
EP 1523826A1	July 15, 2003	2003WO-EP07666	
EP 1523826A1		WO2004010645	Based on
WO2004010645A1	July 15, 2003	2003WO-EP07666	
US20040139264A1	July 18, 2002	2002US-397558P	Provisional
US20040139264A1	July 18, 2003.	2003US-0623199	
AU2003250959A1	July 15, 2003	2003AU-0250959	
AU2003250959A1		WO2004010645	Based on

INT-CL (IPC):  $\underline{G06} \ \underline{F} \ \underline{13/14}$ ;  $\underline{H04} \ \underline{L} \ \underline{12/24}$ ;  $\underline{H04} \ \underline{L} \ \underline{12/26}$ ;  $\underline{H04} \ \underline{L} \ \underline{12/40}$ 

ABSTRACTED-PUB-NO: WO2004010645A

BASIC-ABSTRACT:

NOVELTY - The bus station, e.g. a sensor (14), actuator (15) or gateway (23), performs a secondary bus monitoring function in addition to its primary function via an integrated bus monitor device (30) allowing access to telegram traffic along the bus system (5), for recording and reprocessing. The bus stations are connected in a network allowing monitoring of the bus system via the bus stations.

DETAILED DESCRIPTION - Also included are INDEPENDENT CLAIMS for the following:

- (a) a network with a bus system and at least one bus station;
- (b) a method for monitoring a bus system

USE - The communications bus station is used performing a primary function and for monitoring the bus system.

ADVANTAGE - Existing bus stations are utilized for providing bus system monitoring function.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic representation of a bus system with integrated bus monitoring function in bus stations.

Bus system 5

Sensor 14

Actuator 15

Gateway 23

Bus monitor device 30

ABSTRACTED-PUB-NO: WO2004010645A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.7/10

DERWENT-CLASS: W01

EPI-CODES: W01-A06A; W01-A06B1;

Previous Doc Next Doc Go to Doc#